

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Elischewski, *et al.*

Appl. No.: 09/680,310

Filed: October 6, 2000

For: **Process for the Preparation of
Pantothenic Acid by Amplification of
Nucleotide Sequences Which Code for
Ketopantoate Reductase**

Group Art Unit: 1636

Examiner: G. Leffers, Jr.

Atty. Dkt. 21123/268418

Amendment to Comply with Sequence Listing Rules

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated December 20, 2001, Applicants are submitting the present Amendment to comply with sequence listing rules.

Amendments

Please enter the paper copy of the Sequence Listing enclosed herewith on separate pages following the claims and abstract of the application.

On page 13 of the specification, please amend line 7 to read as follows:

- Figure 9: Map of the plasmid pJD-YHR063c. Also shown are two linker sequences:
GAATTCAGATCCGCGGCCGCAAAGAGGAGAAATTAA
CTATG (SEQ ID NO:1) and
CTGCAGACTAGA (SEQ ID NO:2).

On page 17 of the application, please amend lines 9-11 to read as follows:

PCR primers for the *ilvC* gene from *E. coli*:
*ilvC*1 5'- AGAAGCACAACATCACGAGG - 3' (SEQ ID NO:3)
*ilvC*2 5'- CTCCAGGAGAAGGCTTGAGT - 3' (SEQ ID NO:4)

On page 25, please amend lines 11-13 to read as follows:

PCR primers for the panE gene from *E. coli*:

panE1 5'- AGGAGGACAATGAAAATTAC -3' (SEQ ID NO:5)

panE2 5'- TCAGTCTCTTCACTACCAGG -3' (SEQ ID NO:6)

On page 27 of the application, please amend lines 3-11 to read as follows:

PCR primers for the panB gene from *E. coli*:

panB1 5'- AGGATACGTTATGAAACCGA -3' (SEQ ID NO:7)

panB2 5'- ACAACGTGACTCCTTAATGG -3' (SEQ ID NO:8)

PCR primers for the panC gene from *E. coli*:

panC1 5'- AGGAGTCACGTTGTGTTAAT -3' (SEQ ID NO:9)

panC2 5'- AAGTATTACGCCAGCTCGAC -3' (SEQ ID NO:10)

PCR primers for the panD gene from *E. coli*:

panD1 5'- AGGTAGAAGTTATGATTTCGC -3' (SEQ ID NO:11)

panD2 5'- TAACAATCAAGCAACCTGTA -3' (SEQ ID NO:12)

Please amend page 32 of the application, lines 10-12 to read as follows:

PCR primer for the avtA gene from *E. coli*:

avtA1 5'- TGCTCTCTCTCAACGCCGAA -3' (SEQ ID NO:13)

avtA2 5'- GAAGCCGCCAACCAGGATAA -3' (SEQ ID NO:14)

Please amend page 42 of the application, lines 11-15 to read as follows:

- oJD539 (5'- EcoR1-Not1 START):
5'- GCGCGAATTCAGATCCGCGGCCGCAAAGAG
GAGAAATTA ACTATGACTGCACCACACAGAAG -3'
(SEQ ID NO:15)
- oJD540 (3' Spe1- Pst1 STOP):
5'- CGCGACTAGTCTGCAGTCAGTCCTTTCTCCA
GTCAC -3' (SEQ ID NO:16)

Please amend the paragraph that begins on page 43 of the application, line 29 and which ends on page 44, line 2 to read as follows:

- oJD105 (T-CYC1):
5'- GAAGTCATCGAAATAG -3' (SEQ ID NO:17)
- oJD106 (P-CUP1):
5'- TCGTTTCTGTCTTTTTC -3' (SEQ ID NO:18)